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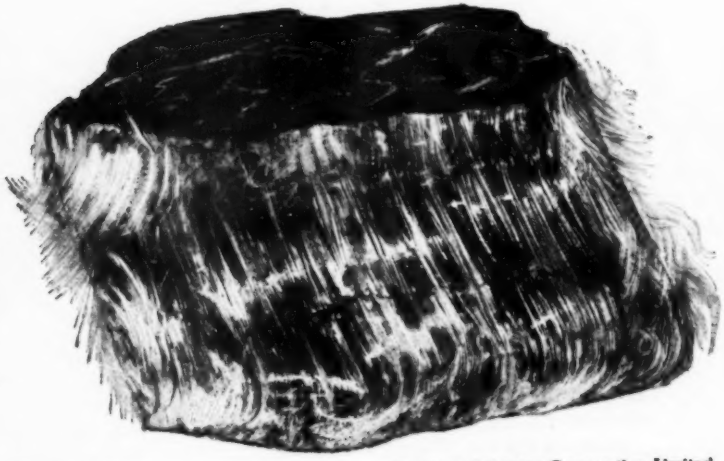

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CONTENTS

	Page
FIBERIZATION, A CRITICAL OPERATION IN ASBESTOS PROCESSING	2
J. W. KERR RECEIVES 1961 DISTINGUISHED ACHIEVEMENT AWARD	12
R. S. HAMMOND RETIRES FROM J-M	16
AUTOMOBILE SALES	18
MARKET CONDITIONS	24
BUILDING	28
PRODUCTION STATISTICS	32
IMPORTS AND EXPORTS	34
NEWS OF THE INDUSTRY	42
CURRENT RANGE OF PRICE	50
ASBESTOS STOCK QUOTATIONS	52
PATENTS	56

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FIBERIZATION, A CRITICAL OPERATION IN ASBESTOS PROCESSING

By: W. E. Sinclair, M.I.M.M.

Because of the inherent peculiarities in many of the natural properties of asbestos, it will be generally inferred by the knowledgeable that fiberization is not the only critical operation in processing practices. Admittedly, there are numerous difficulties to be overcome in the efficient and economical production of commercial fibres from the different varieties of asbestos. With the exception of fiberization, however, it can be safely said that modern practice has successfully solved the most important problems, as is clearly evident by the high quality of the product today.

Fiberization, for several reasons, is one of the most important of milling functions, both to the producer and the manufacturer, since it is one of the processes upon which the end use is often directly dependent in the fabrication of asbestos products.

The difficulty or difficulties encountered in the process are not altogether mechanical as purely physical, due mainly to the variation in the quality of the fibres, not only in the different types of asbestos, but in each class, whether chrysotile or the amphibole varieties. Quite apart from the texture of the fibres, that is whether they are soft and silky or harsh and brittle, the possibility of associated minerals in the ore, or even interspersed in the fibres themselves, constitutes a further obstacle to even or uniform separation.

These variable characteristics confound the preconceived notion that the fibrous structure of all asbestos varieties is a property that should make mechanical separation a simple and straight-forward operation. In practice, this is certainly achieved but only in opening up the asbestos into filaments that are amenable to dry methods of separation. This allows the product to be subjected to pneumatic treatment, but it is only by screening and grading in the final processing stages that some degree of uniformity can be finally achieved. This point is referred to later.

Reverting again to the actual operation of fiberization,

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this constitutes the fundamental basis in the economical and efficient recovery of fibres that can be uniformly classified to satisfy the rigid demands of industry. But, once again, another physical condition presents itself in this critical operation, that is the fact that in theory there is no limit to the number of fibre strands that can be extracted from a chunk of crude asbestos. It has been proved that there is no basic size or diameter of asbestos fibres. Down to the limit of ordinary micro-observation, each fibre is just a bundle of smaller fibres, so that, in theory, as already suggested, there is no limit to the opening up process, but in practice, using modern fiberizing machines, it is obvious that a stage would soon be reached when the fibres, if not entirely broken or damaged, would be reduced ultimately to a fluffy mass resembling cotton-wool. Any fibres contained in this mass would naturally lack the springiness and resiliency of perfectly fiberized asbestos, which should be composed of a mass of individual fibre strands, so important in industry.

The value of asbestos in every commercial grade is recognized as being dependent on the fibre length and strength, resulting from maximum fiberization, so adjusted to avoid over treatment. However, it is an accepted aim, in some cases, to open up the fibres to extreme limits. In general practice, the degree of opening is usually an arbitrary fixture based on the quality of the asbestos being treated, although modern practice rather tends to separate the fibres to meet the demands of regular consumers.

Factories may request either crudely or fully-opened fibre. The former quality, of course, is not included as a fiberized mill grade but is prepared mainly by simply crushing and screening the crude, while the fully-opened fibre is subjected to a pre-arranged degree of fiberization to suit requirements. Highly fiberized asbestos is frequently called for by some manufacturers for special purposes. This is produced by adding an extra step in fiberization in specially designed hammer-mills. In some cases, factories prefer to carry out this secondary treatment in their own processing plants to suit their own needs.

The practical process involved in fiberizing techniques

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consists mainly of subjecting crushed asbestos, from which as much dust and grit as possible is first extracted, to beating or pounding in specially designed machines. There are a diverse number of fiberizers designed to perform this function. The original and most common type follows the principle of the centrifugal hammer-mill crusher, the functional operation of which is designed to disintegrate the fibre fed into it and to bring about a shredding action in the process. Similar machines of slightly different design and run at slower speeds are termed impactors. Although most of the better-known fiberizing machines are those of the impeller type, modified forms are now being designed to cause separation without the use of beater arms. The trend in this direction is naturally aimed to effect the opening up process efficiently with the minimum tearing or frictional action, so common in most centrifugal machines.

It has been recognized by many authorities that the more efficient a fine crushing centrifugal machine may be, the greater the tendency for the impellers to cut up and grind the fibre or, at least, weaken the strands. This might, in truth, be said of all hammer-impactor type fiberizers.

However, in considering even the best type of fiberizer, the variable character of the asbestos being treated should be allowed for, because, attritional losses will vary considerably according to the texture and strength of the fibre. In these circumstances, it is not surprising that many large mills have designed and constructed their own fiberizers to treat different types of asbestos of known quality in their own mills, a practice that will undoubtedly become a general part of modern advanced processing techniques.

However, even the most effective mechanical operation cannot be the final solution to controller fiberization, some controlling function is necessary to obviate the uncertainty which is now adjusted by screening and grading the results of fiberizing action.

As it is today, it is only by testing the opened fibres after screening and grading, in a Quebec Standard Testing machine, that an indication is obtained of the extent to which fiberization has been carried, and it is only from

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these results that the fibre in question can be classified in Groups Numbers 3 to 7. Such a test certainly ensures a uniform standard of the selling product for the benefit of customers, especially those manufacturing special products. Incidentally, these tests also serve as a valuable guide to many producers to maintain a regular mill output of standard and uniform grades.

Considering the principle and the functional operation of the Quebec Testing machine, it is quite clear that excessive fiberization will result in a high proportion of the 16 ounce sample remaining on the top screen in the "nest". This means that such a sample would qualify for the highest grade. This would indicate then that high grades, according to test, may in fact consist of "over-milled" fluffy fibre which, in a practical sense, cannot be of very high quality since much of the fibre treated is probably damaged or weakened by a severe opening process.

As already mentioned, the action of extreme fiberization not only tends to damage or shorten a large proportion of the fibres being treated, but a good grade may be spoiled by having shorter fibres forcibly mixed with longer. Unhappily, because of this anomaly, excessive fiberization is encouraged in some mills in order to qualify for high grades according to Test Box classification which, obviously, is far from good practice.

Different aspects of research in the industry is an accepted function in most of the larger firms today, a fact that is evident in the marked progress and high standards in fibre production and in manufactured products. It would appear, however, that there still exists an interesting opportunity to investigate the question of more positive control of fiberizing operations to obviate the uncertainty of the qualities retained on the Test Box Screens.

There seems little doubt that some concerted action of those interested could be made to evolve an appliance to regulate a set degree of opening practice. A direct approach to the question and to the mechanics of such an instrument might possibly be assisted by reference to something of the sort commonly used to determine a set degree of opening in wool. This instrument, known as the fibre fineness meter in the wool industry, has, in a few

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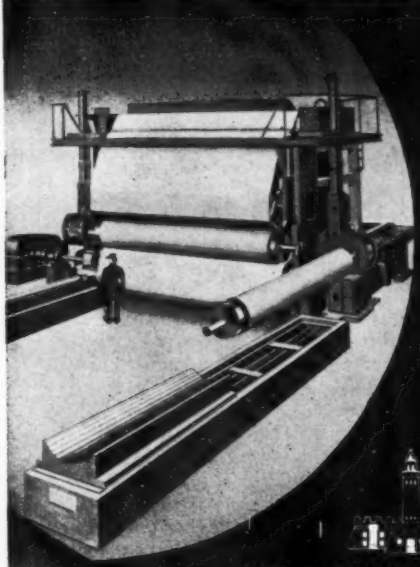

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instances, actually been used by asbestos manufacturers when making specialized products. It is said that the density and the general results obtained in the specimens tested give a reasonable idea of the factors sought, despite variations in the samples.

It is easy to visualize the beneficial results that must accrue if mechanically controlled fiberization could be attained. Not only would final grading be a simplified process and the Test Box results truly standardized, but there would certainly be a substantial saving in asbestos, so much of which is now lost by attrition.

NATIONAL FIRE PROTECTION ASSOCIATION has just made available the following:

NFPA No. 13—"Sprinkler Systems", 1961, 160 pages (revised) $1.25.

NFPA No. 70 PR-1961—"Proposed Amendments to the 1959 National Electrical Code", 390 pages, $2.50.

NFPA No. 96—"Ventilation of Restaurant Cooking Equipment", 1961, 8 pages (new), 40¢;

NFPA No. 97M—"Terms Relating to Chimneys, Gas Vents and Heat Producing Appliances", 1961, 7 pages (revised), 40¢;

NFPA No. 101—"Building Exits Code", 1961, 256 pages (new), $1.50;

NFPA No. 204—"Guide for Smoke and Heat Venting", 1961, 13 pages (new), 50¢;

NFPA No. 211—"Chimneys, Flues, and Vents", 1961, 15 pages (revised), 40¢;

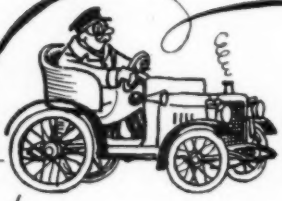
NFPA No. 220—"Standard Types of Building Construction", 1961, 8 pages (revised), 40¢;

NFPA No. 251—"Fire Tests Building Construction and Materials", 1961, 20 pages (revised), 50¢;

NFPA No. 255—"Test Methods, Surface Burning Characteristics of Building Materials", 1961, 12 pages (revised), 50¢; and,

NFPA No. 703—"Fire-Retardant Treatments of Building Materials", 1961, 6 pages (new), 40¢.

Copies of any or all of these standards are available from the National Fire Protection Association, 60 Batterymarch Street, Boston 10, Massachusetts.



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J. W. KERR RECEIVES

1961 Distinguished Achievement Award

J. W. (Bill) Kerr, of Brown & Kerr, Inc., Evanston, Illinois, has received the American Roofer & Building Improvement Contractor's first annual award to the person or persons, who in the opinion of the magazine, has contributed substantially to elevating the industry.

The 1961 Award Winner was selected following a period of research which uncovered the names of outstanding individuals among manufacturers, contractors, equipment suppliers, government and private researchers—in fact all areas in which the industry has benefited from individual enterprise.

The American Roofer does not expect, in future years, to limit the award to a single individual, but in 1961 those making the selection had no doubts that the contribution made by Mr. Kerr eclipsed that of all others whose names had been considered.

Mr. Kerr has been responsible for a radical change in the built-up roofing industry. Not quite single-handed, for he had the enthusiastic support of his partner George Brown, he changed the built-up roofing industry from an operation in which the chief requisite of Labor was muscle-power to horse-power, and in doing so transformed largely unskilled labor forces into highly skilled artisans.

Mr. Kerr did this by the power of example and initially against the sometimes violent opposition of roofing mechanics who had most to gain from the change and from contractor competitors who also had much to profit from mechanism.

Had this been all that Mr. Kerr wrought, he still would have deserved the national recognition accorded to him in the 1961 Award, but there was an added contribution to the industry and to his fellow-contractors.

Mr. Kerr introduced business management to the application of built-up roofing. He moved the job foreman into the management team, schooled him on job control and gave him the opportunity to move into the ranks of the comparatively new job of superintendent.

To achieve job control, Mr. Kerr changed the thinking

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of product manufacturers, selling them on supplying bitumen in liquid rather than solid form, on making deliveries in relation to job progress and in eliminating the rehandling of much of the delivered materials.

Mr. Kerr sold the equipment supply concerns in developing new machines to feed materials to application equipment, linking up equipment on the ground with that on the roof.

During the infancy of mechanized built-up roofing, much of the equipment was designed, fabricated and assembled on Brown & Kerr jobs, to mention a few, the pitch pump, the felt-layer and the gravel spreader. Other machines were manufactured from sketches made by Mr. Kerr.

On the trophy awarded Mr. Kerr is a globe of the world. It has significance for the first award as Mr. Kerr's contribution is indeed international. Mechanization has spread from the United States to Canada, to Great Britain, France and Germany.

SPEED-INSUL PANELS is the name of a new insulation system developed by *Johns-Manville Corporation* combining a highly efficient insulation material with a diamond-rib sheet aluminum facing which offers a time and labor saving method of applying sheet insulation in locations where a weather-resistant facing is required, such as on outdoor tanks.

These Panels consist of Spintex insulation, factory assembled with an aluminum facing. Supplied in sheets about 50″ wide by 100″ long and designed to provide a net insulation coverage of 4′ by 8′ when applied with recommended overlap, the Panels are fastened to metal surfaces using threaded studs welded to the surface to be insulated and are predrilled for the studs, which are supplied with the system, along with fastening nuts and washers. Speed-Insul sheets can be cut and drilled, as necessary, in the field using a standard electric sabre saw and hand drill.

Additional data on Speed-Insul are available from Johns-Manville Corporation, Insulation Division, 22 East 40th Street, New York 16, New York.

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R. S. HAMMOND

Retires from J-M

Reed Stuart Hammond, Senior Operating Vice President, Johns-Manville Corporation and General Manager of the Building Products Division of J-M, retired effective August 1st, 1961.

Mr. Hammond can look back on a 35-year career with the company, most of which has been in sales administrative capacities. During these years, he has helped put J-M building products into millions of new homes and industrial structures all over America.

Mr. Hammond was elected a Vice President of Johns-Manville Corporation on November 2nd, 1959, and became General Manager of its Building Products Division two months later. In a realignment of organization on June 7th, 1960, President C. B. Burnett assumed additional responsibilities as chief executive officer. Mr. Burnett's former operating responsibilities as President of Johns-Manville were delegated to four senior offices responsible for administration of Groups of Divisions or their equivalent. Mr. Hammond was elected a Senior Operating Vice President, continuing as General Manager of the company's Building Products Division.

Mr. Hammond joined the J-M sales organization in 1926 at Atlanta, Georgia, where he subsequently became District Sales Manager. He was advanced in 1947 to General Sales Manager of the Building Products Division with offices at New York. In 1958, Mr. Hammond became General Sales Manager for Industrial Building Products, and the following year became Division General Manager.

As a member of the Producer's Council of Washington, D.C., Mr. Hammond has long been active in Building Industry affairs.

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Motor Trucks	113,824
Motor Coaches	397
	681,784

In June 1960, a total of 717,366 motor vehicles were sold. In the six months of 1961 the total was 3,331,332.

These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

Architects, heating engineers, turbine and boiler designers will be interested in a new high temperature insulating cement with an increased effective temperature range to 2100°F. offered exclusively by BALDWIN-EHRET-HILL, INC., Trenton, New Jersey. The new material is called BEH No. 1 Plus insulating cement. The highest effective temperature formerly available in a mineral wool insulating cement was 1800°F. Although the temperature limit has been increased 300°F., there is no increase in cost.

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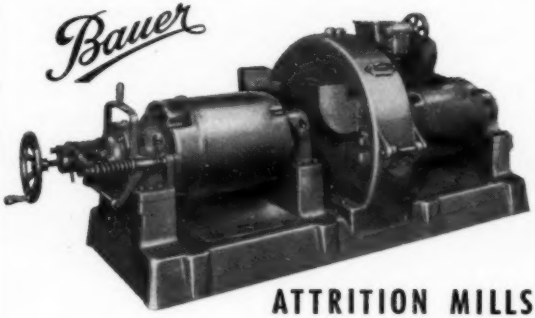

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GARLOCK INC. of Palmyra, New York, has recently released two very interesting bulletins on their gasket materials.

Bulletin AD-190 (24 pages) details resistance rating for 120 fluids and gases and introduces the newer Garlock Gasket Materials VITON and TEFLON (DuPont Trademarks).

For high pressure, high temperature application on manholes, handholes, boiler tube caps, valve bonnets and flange joints, Garlock offers GUARDIAN (Garlock trademark) Spiral-Wound Gaskets. Bulletin AD-176 carries complete information including the two new important advancements— 1/16", paper thin GUARDIAN gaskets and the new high temperature gasket made with ceramic filler materials.

KEASBEY & MATTISON COMPANY has prepared a complete promotion kit for its distributors and salesmen which points up the advantages of KolorMate, K&M's factory-finished, pre-colored structural and decorative asbestos-cement sheets.

Created around the theme "Show Your Colors", the kit includes 4-page, full-color folders; double-spread, full-color ad reprints; trade publication and Wall Street Journal ad reprints; product news releases; pitch sheets by product manager and advertising manager stressing dealer benefits; business reply cards for additional information; and, a color-swatch booklet attached to an actual product sample.

KolorMate sheets are available in 15 vivid, lasting colors which resist most chemicals and acids, weather, scuffing and abrasion. Flat structural, decorative, and corrugated sheets, they are ideally suited to exterior use. In interior design, K&M panels are architecturally accepted for permanent or movable partitions and for special decorative effects in industrial, commercial or residential construction.

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FIRE PREVENTION WEEK, October 8-14, 1961, marks the 90th anniversary of the Great Chicago Fire on October 9th, 1871. A reminder of the needless tragedy and waste of fire, the observance originated in 1911 as Fire Prevention Day at the suggestion of the Fire Marshals Association of North America, now a section of the National Fire Protection Association.

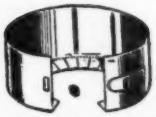
Fire Prevention Week was first officially proclaimed in 1922 in both the United States and Canada.

Its message is this: fires are not deplorable accidents, but the consequences of neglect and carelessness. Fire Prevention Week is a time to check defenses against fire in the home and places of work, to make sure personal habits are fire safe ones.

NATIONAL GYPSUM COMPANY has released a colorful, comprehensive manual covering their entire line of Asbestos-Cement Products.

Showing various siding and roofing styles and textures in all available colors, the booklet also gives necessary specifications and pertinent data on lightweight Corrugated Asbestos-Cement "Economy 250" sheeting, and Asbestos-Cement Flat Sheets and contains sections on Perforated Asbestos Soffit Panels and new Deep-Tex Siding.

For a copy of this valuable reference booklet, write the National Gypsum Company, Buffalo 2, New York, for "Gold Bond Asbestos-Cement Products" (Booklet No. 2795).



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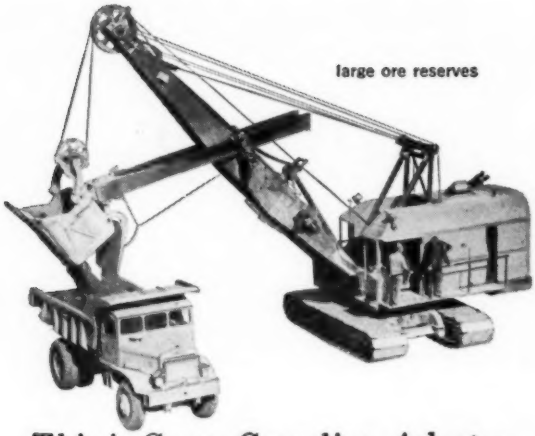


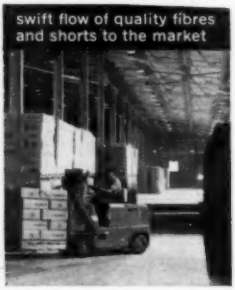
This is Carey-Canadian Asbestos

from mine, to mill, to market

Here is your dependable source for the highest quality asbestos, consistently uniform from shipment to shipment.

Complete information on Carey-Canadian Asbestos can be obtained by writing:

Carey-Canadian Mines Ltd., P. O. Box 15095, Cincinnati, Ohio or Carey-Canadian Mines Ltd., East Broughton Station, P. Q., Canada



MARKET CONDITIONS

GENERAL BUSINESS.

General business continues to improve. The Federal Reserve Board index of industrial production rose two points in July to a high of 112. Employment continues to rise although unemployment is still high. Fundamentally the economic outlook is good. Belief of many that this is so is evidenced by recent new highs in the stock market. However there is increasing concern over the situation in Berlin and the outcome of the present crisis may have far reaching effects on the economic future of the whole world.

ASBESTOS—RAW MATERIAL.

Asbestos fibre shipments for the Industry during July 1961 exceeded the same period last year by approximately 9,000 tons or 11%.

Year to date shipments at 561,315 tons are running 8,000 tons or slightly over 1% above the first seven months of 1960.

It is expected that 1961 fibre sales will exceed those of 1960 by approximately 5%.

All fibre grades appear to be in ample supply.

ASBESTOS—MANUFACTURING GOODS.

Asbestos Textiles. The market situation at the present time has improved over the last few months and is expected to continue to improve during the rest of the year.

Asbestos Brake Lining. Replacement Sales are now equal to last year and should show significant improvement over 1960. O.E.M. Sales are off slightly, due to lesser sales value per unit in compact car consumption. A gradual improvement is expected during the next few months.

Asbestos Paper. The present market situation continues to improve for ferrous and non-ferrous industries and should result in improved sales during the balance of this year. The volume of orders for *Asbestos Millboard* has increased considerably and the remainder of 1961 should

100%

pure Amosite Asbestos CAPOSITE Rope

You can insulate better and cheaper with Caposite Rope because it yields 3 times the footage of ordinary asbestos rope on a pound for pound basis. It can be reapplied repeatedly for service up to 750° F. The flexibility of Caposite provides easy application in all diameters from ½" to 2". Ask for Bulletin 101 and samples.

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In the United States
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Board of Trade Building • Chicago 4, Illinois

In Canada
CAPE ASBESTOS (CANADA) LIMITED
200 Bloor Street East • Toronto, Ont. • Canada

CAPE

Subsidiaries of The Cape Asbestos Co. Ltd., London

be equal to last year. The market situation at present for *Asbestos Saturated Paper* continues to be fairly good and this situation is expected to remain the same for the rest of the year.

Asbestos-Cement Products. The market situation on asbestos cement products at the moment is very good. It is expected that business is on the increase and this situation should continue for the balance of the year.

High Pressure Insulation. The volume of orders for this material is just beginning to pick up and should be fairly good for the balance of the year. However, price competition continues to be very severe for all types of work.

Asbestos Siding. There is extreme competition at present in the asbestos siding market. Demand for this material should improve due to improving economic conditions in general business.

Asbestos Pipes. This market continues seasonally active with prices becoming more firm. It is expected that this market strength will continue until bad weather forces a curtailment in construction.

The above comments have been made by various informed executives in the Industry. All comments are welcome.

ALDEN A. LOFQUIST, Vice President-Manufacturing of Nicolet Industries, Inc., retired effective September 1, 1961, after twenty years of service with the Company. Mr. Lofquist has served in a variety of capacities in both the mining and manufacturing activities of Nicolet and for a number of years was President of Norristown Magnesia and Asbestos Company, a subsidiary corporation which later was merged into the parent.

Mr. Lofquist has indicated a willingness to make himself available to the management of Nicolet Industries for consultation and advice.

High grade asbestos fibers produced to your needs

Shingle and siding stock, floor tiles, brake linings, insulating coatings, pipe or plastics – name your product—Flintkote's research laboratories are completely equipped to determine and recommend the grade and characteristics of asbestos fiber your product needs. Flintkote Mines extensive facilities mill fibers to meet every requirement!

If asbestos fiber is a factor in your manufacturing process, call or write Flintkote for a quick answer to any problem.

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· Toronto Office: 30th Street, Longbranch, Toronto, Ont., Canada · London Office: Adam House, 1 Fitzroy Square, London W-1, England

BUILDING

Construction contracts in July 1961 held close to the high June level, thanks to a sharp increase in housing and continued strength in non-residential building, F. W. Dodge Corporation reported.

Total contracts for future construction amounted to $3,528,553,000 in July, down 2% from a year ago. After adjustment for normal seasonal patterns, the July figures were down only 1% from the previous month, with the Dodge Index of Construction Contracts at 277 compared with 281 in June (1947-49=100).

Contracts for residential building in July totalled $1,501,563,000, up 13% from the year-earlier level. The major source of strength was a 50% increase in contracts for apartment buildings, although single-family homes also showed a modest improvement over last year. The number of dwelling units represented by the July residential contracts totalled 106,844, up 10% from a year ago.

Non-residential building contracts in July, at $1.154,-200,000, were just slightly ahead of the same month last year. Noteworthy gains in commercial buildings, schools, and hospitals offset declines in contracts for manufacturing and other non-residential buildings.

Heavy engineering contracts in July amounted to $872,790,000, down 22% from last year. Both public works and utilities were well below year-earlier levels.

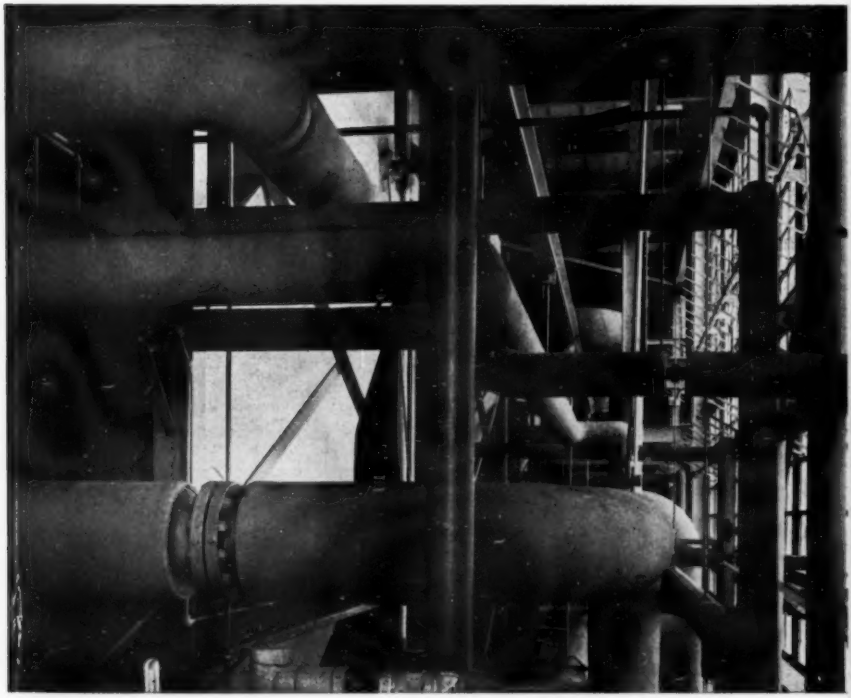
Cumulative totals of construction contracts for the first seven months of 1961, with percentage changes from the corresponding period last year, are: non-residential building, $7,135,455,000, up 3%; residential building, $9,259.636,000 up 4%; and, heavy engineering $5,335,298,-000, up 1%—total construction, $21,730,389,000, up 3%.

Will buy copies of August 1960 "ASBESTOS" and pay promptly. Send copies to "ASBESTOS", 807 Western Saving Fund Building, Philadelphia 7, Pennsylvania.

ONLY APPROVED CONTRACTORS INSTALL B-E-H INSULATIONS

The THERMALITE 85% Magnesia Insulation in this boiler room is typical of the faultless work of B-E-H approved contractors. Only men fully skilled in the application of B-E-H products are entrusted with their installation. Result: Full insulating value and long, trouble-free service life with economical heating.

Standard inventories of THERMALITE are maintained by distributors in all principal cities. For the full story of this money-saving insulating material, see your B-E-H Distributor or write direct for new Catalog to the address below.



Typical THERMALITE installation. THERMALITE has unusually low thermal conductivity, is molded to exact shape, assuring tight joints and snug pipe fits essential for maximum heat economy.

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BALDWIN-EHRET-HILL
500 Breunig Avenue Trenton 2, New Jersey

The familiar initials H.I.C. will become N.H.I.C. as a result of action taken by the Board of Directors of the HOME IMPROVEMENT COUNCIL at its July 1961 meeting.

On recommendation of the Council's new Chairman, Carroll O'Rourke, the word "National" was added to its official name. Mr. O'Rourke emphasized that the name "National Home Improvement Council" more effectively suggests the Council's role as "the only truly national and industry-wide voice for the home improvement business".

NATIONAL GYPSUM COMPANY has published "Asbestone Panels", an up-to-date architectural, engineering and data manual on asbestos-cement faced sandwich panels for interior or interior-exterior use. Containing both application information and design data for Gold Bond Asbestone Panels, the manual covers uses such as curtain-wall applications with both asbestos-cement and aluminum batten systems, roof deck and window wall construction, and interior partitions with aluminum and steel batten systems, wood framing and standard mouldings. The 28-page manual also includes suggested specifications.

For "Asbestons Panels", (A.I.A. File Number 19-D), write the National Gypsum Company, Buffalo 2, New York.

R. R. O'LOUGHLIN, buyer of cotton gray goods for *United States Rubber Company*, retired on July 31st, 1961. His responsibilities will be distributed among a group of buyers in the Purchasing Department.

Mr. O'Loughlin had been with U. S. Rubber for the last 40 years, starting in the Production Scheduling Department of the Tire Division in 1921. Since 1929, he has been a buyer of textiles.

asbestos cement department

TORINO - VIA S. TERESA 10 - ☎ 55.35.76 - 52.41.33

NOTICE

The R.C.M. Company (Revisione Costruzione Macchine) - 10, Via Santa Teresa - Turin - Italy, wishes to inform that anybody interested is invited to visit a very modern Factory in Italy where an R.C.M. automatic installation is in working activity for the manufacture and finishing of Asbestos-Cement pressure and non-pressure Pipes, also of small diametre.

Examination of this installation will clearly show the results reached by the R.C.M. Company in the construction of machinery for the Asbestos-Cement Industry.

This machinery permits the use of lower priced asbestos mixtures while producing the same quality product in accordance with the standards now in force.

AFRICA (Rhodesia)

(Published by Rhodesian Mining and Engineering)

Tons 2,000 lbs.

Production for June 1961	13,166.24
Valued at	£762,361.00*
Production for June 1960	10,738.16
Valued at	£623,602.00*

*Corrected to the nearest £.

CANADA

(Dept. of Mines, Province of Quebec)

Tons 2,000 lbs.

Production for June 1961 (Quebec)	98,476
Other Provinces	5,964
	104,440

Total production for June 1960 was 100,561 tons.

UNION OF SOUTH AFRICA

(Quarterly Information Report—Dept. of Mines.)

Tons 2,000 lbs.

	1st Quarter (Jan., Feb., and March 1961)				
	Production	Local Sales		Exports	
	Tons	Tons	Value	Tons	Value
Amosite	16,844	152	£ 10,934	13,192	£1,204,848
Chrysotile	8,696	1,383	104,321	5,450	589,306
Cape Blue	18,053	760	102,529	15,072	2,131,365
Transvaal Blue	2,339	78	9,564	2,040	274,217
Tremolite	10	21	830	..	..
	45,942	2,394	£228,178	35,754	£4,199,736

All machinery for the equipment of plants producing asbestos-cement pipes and sheets

covering the entire production process from the stock preparation to the testing of the finished product.

All machinery for wet or dry preparation of asbestos-cement / Asbestos silos.
Sheet producing machines with one to three cylinder moulds, automatic or semi-automatic combined production lines for flat and corrugated sheets.
Piling equipment combined with cleaning and lubricating machinery for flat and corrugated steel sheets, suitable also for automatic operation / punching and trimming machines / hydraulic presses.
Pipe winding machines for the production of pressure pipes of up to 5 metres (16 ft. 5 in.) length and 1000 millimetres (3 ft. 3 in.) dia / lathes for pipes and joints / cut-off grinders / testing presses for pipes and joints / calenders for the forming of plain and joint-fitted pipes / mandrel pull off machines / autoclaves for hardening of asbestos-cement sheets and pipes as well as many other units, pumps and accessories.

Leaflets describing individual machines will be readily sent on request.

J.M.VOITH A.G.

St. Poelten – Austria
P.O.B. 168 / Tel. 2501 / Teletype 01 510

Imports Into U.S.A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

		April 1961 Tons (2,240 lbs.)
From:	Canada	38,735
	Union of South Africa	2,423
	Yugoslavia	745
	Rhodesia (Nyasaland)	423
	Mozambique	157
	United Kingdom	73
	Other Countries	47
		42,604
	Valued at:	$4,439,409

By Grades:

Crude,	No. 1,	Chrysotile, U. of S. Africa	53
Crude,	No. 1,	Chrysotile, Other Countries	13
Crude,	No. 2,	Chrysotile, Rhodesia (Ny)	240
Crude,	Other,	Chrysotile, United Kingdom	13
Crude,	Other,	Chrysotile, Yugoslavia	745
Crude,	Other,	Chrysotile, U. of S. Africa	370
Crude,	Blue,	Mozambique	157
Crude,	Blue,	Union of South Africa	623
Crude,	Blue,	Other Countries	16
Crude,	Amosite,	Union of South Africa	1,378
Crude,	Amosite,	Rhodesia (Nyasaland)	63
Textile	Fiber,	Chrysotile, Canada	806
Shingle	Fiber,	Chrysotile, Canada	6,107
Paper	Fiber,	Chrysotile, Canada	2,299
Other	Fibers,	Chrysotile, Canada	29,523
Other	Fibers,	Chrysotile, United Kingdom	60
Other	Fibers,	Chrysotile, Rhodesia (Ny)	120
Other	Fibers,	Chrysotile, Other Countries	18
			42,604

Manufactured Asbestos Goods:

	April 1961 Quantity (lbs.)	Value
Asbestos Yarn, United Kingdom	24,812	$ 18,717
Other Countries	4,006	5,391

Partial list of users

United States
Alcatraz Co. Inc.
American Brake
American Smelting
Armstrong Cork Co.
Auto Specialties
Battenfeld Grease
Durex Plastics
Eaton Mfg. Co.
Flintkote Co.
Grizzly Mfg. Div.
Henry, W. W. Co.
Hooker Chemical Co.
Inland Mfg. Div
Johns-Manville
Linde Air Products
Marshall-Eclipse Div. of Bendix
National Brick Co.
National Gypsum
Nicolet Industries, Hamilton, Ohio
Nicolet Industries, Norristown, Pa.
Philip Carey Co.
Supradur Mfg. Corp.
Thermoid Co.
Union Asbestos
U. S. Gypsum
Worldbestos

Canada
Asbestos Corp.
Asbestonos Corp.
Atlas Asbestos
Canadian Johns-Manville
Cassiar Asbestos
Husky Oil
Lake Asbestos

Elsewhere
Beral-Bremsbelag Kg., West Germany
Everitube, France
Hellenic Building Materials, Greece
Industria de Asbestos Dominican Republic
Israel Brake Lining, Israel
J. D. Jones, India
Pacmac Machinery, Philippines
Turner Bros., England

MOODY Fibre Fluffer
re-opens Pressure Packed Asbestos Fibre

...all grades of pressure packed asbestos from shorts 7-R to spinning fibre 3-R restored to pre-packaged fluffy condition — free from lumps and mats. Compact, simple to operate — fits into any production line. Up to 15 ton capacity per hour.

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Head Office & Plant Terrebonne, P.Q. • Branch Offices Montreal & Toronto

Asbestos Packing, United Kingdom	19,138	10,733
Other Countries	1,100	2,121
Asbestos Shingles (Impregnated)		
Belgium	210,264	39,004
Other Countries	64,219	6,492
Asbestos-Cement Pipe & Fittings		
(Not Impreg.), Mexico	679,791	64,395
Belgium	400,635	26,408
Austria	1,676,662	81,388
Italy	1,204,397	45,251
Other Countries	22,152	442
Asbestos-Cement Mfgs. Other		
(Not Impregnated)	80,493	4,304
Asbestos Manufactures—Others	..	2,841
	4,387,669	$307,487

IMPORTS OF ASBESTOS BY UNITED KINGDOM

Raw Materials

Tons 2,240 lbs.

	June 1961
From: Union of South Africa	3,785
Basutoland, Bechuanaland & Swaziland	2,916
Rhodesia & Nyasaland	8,277
Canada	7,491
Other Commonwealth Countries & Irish Republic	179
Foreign Countries	209
	22,857

„ Tropag "

Hamburg —:— Ballindamm 6

Importers since 1909 of

ASBESTOS-ORES-MINERALS

DURASORB

FELTS for Asbestos Cement Products

Give Better:

- **FINISH**
- **DRAINAGE**
- **LIFE**

Our sales engineers and designers have succeeded many times in improving one or more of these essential production features. We can help you too.

TALK IT OVER WITH YOUR ALBANY FELT SALES ENGINEER

Exports From U.S.A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	May 1961 Tons (2,240 lbs.)	Value
To: Europe	95	$ 20,970
United Kingdom	20	1,880
South America	15	5,289
Other Countries	37	9,645
	167	$ 37,784

Manufactured Asbestos Goods:

	May 1961 Quantity	Value
Asbestos Cement & Pipe Covering .Lbs.	615,829	$ 125,409
Asbestos Textiles & Yarn .....Lbs.	74,531	71,993
Asbestos Packing .....Lbs.	131,625	173,908
Asbestos Clutch Facing .....No.	109,570	92,539
Asbestos Bk Lng (Mld & S.Mld) Lin. Ft.	243,698	76,618
Asbestos Brake Lining, Other .....Lbs.	371,045	290,539
Asbestos Construction Material ...Lbs.	2,237,273	257,603
Asbestos Manufactures—Other	..	62,329
		$1,150,938

INDUSTRIAL SERVICE COMPANY

Builders of

ASBESTOS CEMENT MACHINERY

Our experienced engineers and machinists offer the industry entire machines built to deliver maximum production.

Your Inquiries Are Invited

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Producers:-

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LONDON
E. C. 4

Telephone:
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(Private Branch Exchange)

Cables:
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London

Exports From Canada

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos:

	March 1961 Tons (2,000 lbs.)	Value
Crude		
United States	5	$ 7,050
United Kingdom	..	..
South America	..	..
Central America & Mexico	..	..
European Countries	7	6,205
Other Countries	1	750
	13	$ 14,005
Milled		
United States	12,987	$2,625,305
United Kingdom	2,056	433,423
South America	1,197	219,480
Central America & Mexico	500	90,935
European Countries	5,361	1,135,464
Other Countries	2,797	516,609
	24,898	$5,021,216
Shorts		
United States	32,287	$1,669,875
United Kingdom	1,087	48,394
South America	141	10,795
Central America & Mexico	110	6,042
European Countries	587	32,859
Other Countries	1,290	103,960
	35,502	$1,871,925
Grand Total—		
Unmanufactured Asbestos:	60,413	$6,907,146
Manufactured Asbestos Goods:		
Brake Linings Facings		$ 21,770
Asbestos-Cement Building Materials		1,610
Asbestos-Cement Products, Other		6,320
		$ 29,700

WILHELM BURGDORF

Importer of Raw Asbestos

P. O. Box 1131, BREMEN, GERMANY

In 5 minutes...An Automatic Test of Fiber Openness

Press the starter button, and in 5 minutes the Blaine-Dyckerhoff air permeability tester will *automatically* determine the surface area of asbestos fiber. This apparatus as used at the J-M Research Center and by J-M Mill Quality Control at Asbestos, Quebec, is accurate within a 5% margin of error.

In a continuing effort to improve fiber quality and uniformity, and after thoroughly evaluating and testing, J-M recommends this equipment to the Asbestos Industry as an approved and improved method in Quality Control.

For full details, write Johns-Manville, Box 325, New York 16, N. Y. In Canada: P.O. Box 1500, Asbestos, Quebec. Cable: Johnmanvil.

JOHNS-MANVILLE JM

NEWS OF THE INDUSTRY

HAPPY BIRTHDAY

R. J. Berry, President, Standard Asbestos Manufacturing Company, Cleveland, Ohio, September 15.

W. John Scotford, Manufacturing Division Manager, Wunderlich Limited, Sydney, NSW, Australia, September 15.

Charles Robert Neal, President, Metate Asbestos Corporation, Globe, Arizona, September 18.

S. Ralph Zimmerman, Jr., Executive Vice President, U. S. Asbestos—Grey-Rock Division, Raybestos-Manhattan, Inc., Manheim, Pennsylvania, September 19.

W. N. Bolster, President & Treasurer, General Insulation Company, Cambridge, Massachusetts, September 20.

William R. Whitener, Sales Manager, Jefferson Lake Asbestos Corporation, San Francisco, California, September 20.

Charles E. Masters, Vice President—Finance, National Gypsum Company, Buffalo, New York, September 21.

Paul R. Sussman, President, The Sussman Asbestos Company, Toledo, Ohio, September 21.

Eugene H. Walet, Jr., President, Jefferson Lake Asbestos Corporation, San Francisco, California, September 24.

Win Brown, Vice President, MacArthur Company, St. Paul, Minnesota, September 25.

W. S. Jeffrey, General Manager, Australian Asbestos (Pty) Limited, Marrickville, NSW, Australia, September 26.

W. H. Fehrs, Vice President & Secretary, Union Asbestos & Rubber Company, Chicago, Illinois, September 28.

J. M. High, Sales Manager—Insulation Division, Mundet Cork Corporation, North Bergen, New Jersey, September 28.

John W. Humphrey, President & Director, The Philip Carey Manufacturing Company, Cincinnati, Ohio, September 28.

Reginald L. Johnson, Vice President, Johns-Manville Corporation, New York City, September 28.

Frank L. Sowka, Treasurer, Standard Asbestos Manufacturing Company, Chicago, Illinois, October 1.

George Courtauld, Director, The Cape Asbestos Company Limited, London, England, October 2.

W. W. Dunkin, Treasurer, Southern Friction Materials Company, Charlotte, North Carolina, October 5.

Robert E. Skinner, Works Manager, Wunderlich Limited, Melbourne, Victoria, Australia, October 5.

Russell E. Crawford, Director, Baldwin-Ehret-Hill, Inc., Valley Forge, Pennsylvania, October 9.

A. L. Penhale, President & Managing Director, Asbestos Corporation Limited, Thetford Mines, P.Q., Canada, October 11.

H. R. Barrett, Executive Vice President & Director, The Philip Carey Manufacturing Company, Cincinnati, Ohio, October 13.

GEBR. WEHRHAHN

MASCHINENFABRIKEN

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DELMENHORST / GERMANY

Manufacturers of the finest and most modern plants for the production of asbestos-cement products, such as

pressure pipes
socket pipes
flat and corrugated sheets

Projecting — Erecting — Handing over in ready-for-operation condition

Get full information! **Write now!**

W. M. Paxton, Sales Manager—Packing Department, Raybestos Division, Raybestos-Manhattan, Inc., Bridgeport, Connecticut, October 14.

To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

UNION ASBESTOS & RUBBER COMPANY

Second Quarter Report—1961

Net sales of the Union Asbestos & Rubber Company for the three months ending June 30th, 1961, were $2,434,281 compared to $3,196,949 for the same period of 1960. Net profit, after taxes, for the 1961 second quarter was $13,593 against $11,757 for the 1960 second quarter.

The decrease in sales represented the discontinuance of unprofitable items manufactured at the Company's former Blue Island plant. According to Edwin E. Hokin, President of UNARCO, "the closing of the Blue Island plant and the move to Tennessee is now complete and earnings in the future should reflect the improved operating conditions".

JEFFERSON LAKE SULPHUR COMPANY

Six-Month Report—1961

Eugene H. Walet, Jr., President of Jefferson Lake Sulphur Company and subsidiaries, Jefferson Lake Petrochemicals of Canada Limited and Jefferson Lake Asbestos Corporation, announced in a consolidated report for the six months ended June 30th, 1961, net income of $323,797, an increase of 117% over the net income in the like period in 1960, which amounted to $149,373. "Several divisions of the company (Sulphur, Petrochemicals, and Oil and Gas) are operating efficiently and profitably and each is currently negotiating towards further expansion."

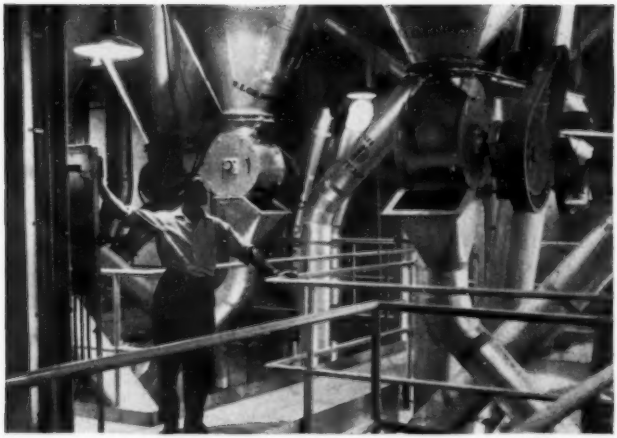
International Asbestos Cement Review

An architectural quarterly devoted to the promotion of asbestos-cement, published in English, French and German editions

Circulation exceeding 44000

Editions Girsberger, 40 Kirchgasse, Zurich, Switzerland

(U. S. agents: Wittenborn & Co. 38 East 57th Street, New York 22)



Established source, volume source, independent source of proven-quality chrysotile asbestos fibre

With an annual productive capacity of 100,000 tons of high grade asbestos, Lake Asbestos of Quebec is an established supplier of high grade asbestos for world wide use. Write for information to Asarco International Corporation, 120 Broadway, New York 5, N.Y., distributor for LAQ.

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Rio de Janeiro, Sao Paulo

CHILE
Agencias Kapel Ltda., Santiago

ENGLAND
(for U.K., Spain, Portugal)
Metal Traders Ltd.
Asbestos Division, London

FRANCE
Dieppedalle & Seailles, Paris

HOLLAND
(for The Netherlands, Belgium, Switzerland)
Keyser and MacKay
Amsterdam

ITALY
Amianto Del Lago, Torino

JAPAN
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SOUTHEAST ASIA
Jardine Waugh (Singapore) Ltd.
Singapore

SWEDEN
Aktiebolaget Ingeniorsfirman Titan
Stockholm

WEST GERMANY
(for W. Germany, Austria)
Atlanta Bauer & Co., Bremen

ASARCO

LAKE ASBESTOS OF QUEBEC, LTD.
a subsidiary of American Smelting and Refining Company

George W. Lumpe has been named Division Manager—Executive Recruiting for E. A. BUTLER ASSOCIATES, 1500 Walnut Street, Philadelphia 2, Pennsylvania.

Mr. Lumpe was previously associated with Corporate Industrial Relations offices of Keasbey and Mattison Company at Ambler, Pennsylvania.

Buvoha Trade Letter—1961, contains a great number of addresses of industrial and commercial firms in the Netherlands interested in trade relations with firms abroad. Firms interested in business relations with Dutch firms can apply for a free copy by writing to the Bureau Voor Handelsinlichtingen, Oudebrugsteeg 16, Amsterdam-C., Holland.

Carey-Canadian Mines Limited announced the appointment of DONALD MC KAY SMITH, INC., as their asbestos fibre distributor in Northeast Ohio. Donald McKay Smith, Inc., is an experienced and well-established manufacturer's representative for chemicals and raw materials for industry. The firm is located at 966 Hanna Building, Cleveland 16, Ohio.

The Cape Asbestos Company Limited, London, England, has announced the appointments of two new executive directors to the Board. They are L. C. DAWSON, F.C.A., responsible for the Group's Engineering Division and DR. R. GAZE, B.Sc., F.R.I.C., the Group's Chief Scientist.

The Board of Cape Asbestos (which under the decentralization of January this year became the holding company for the whole Cape Group) now consists of Giles Newton, Chairman; R. H. Dent, Deputy Chairman and Managing Director; G. Courtauld; Lord Elton; R. St. G. Riley; S. D. H. Pollen; T. Muir Warden; L. C. Dawson; and, Dr. R. Gaze.

POLYREZ

PHENOLIC RESINS IN
Liquid, Lump and Powder
For All Friction Materials.

POLYREZ COMPANY, INC.

RAILROAD & SO. COLUMBIA WOODBURY, N. J.

BELL ASBESTOS MINES LTD.

THETFORD MINES, QUE.

CANADA

Producers of

Raw Asbestos Crudes

& Fibres

Sales Representatives

for

Cassiar Asbestos Corporation Limited

Thomas A. McManus was named to the position of Systems Analyst at KEASBEY & MATTISON COMPANY, Ambler, Pennsylvania, it was announced by L. J. Clark, Systems and Procedures Department Manager.

Mr. McManus will analyze office systems and data processing. He formerly had been an Account Consultant with the UNIVAC Division of Sperry Rand.

Jefferson Craig has been named General Foreman in Plant No. 1, KEASBEY & MATTISON COMPANY's building products manufacturing plant, Ambler, Pennsylvania, it was announced by N. H. Rhoades, Plant Manager. Mr. Craig will head Departments 107 and 111 ebonized asbestos products and asbestos-cement specialties under Mr. Rhoades.

Employed by K&M since August 1960, Mr. Craig previously held the newly-created post of manufacturing engineer.

Richard J. Fuendeling has been named Office Manager and Plant Accountant of KEASBEY & MATTISON COMPANY's pipe manufacturing plant at Santa Clara, California, it was announced by H. J. Angstadt, Plant Manager.

Before joining K&M, Mr. Fuendeling was Manager of the Services Department of the Guaranty Savings & Loan Association.

ASBESTOS
CABLE: SOTSEBSA

Exporters of

RAW ASBESTOS

ALL GRADES—ALL TYPES

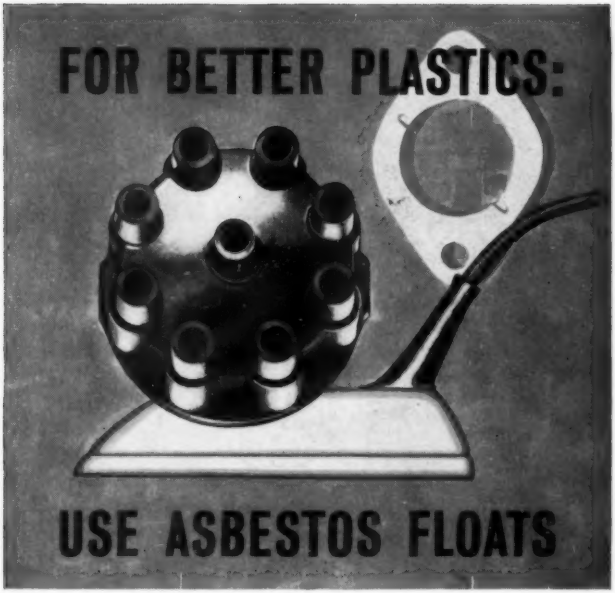
C. J. PETROW & COMPANY (PTY.) LTD.

P. O. BOX 11000

RAND CENTRAL — 165 JEPPE STREET

JOHANNESBURG - SOUTH AFRICA

OFFICES ALSO IN: TOKYO (JAPAN) AND BULAWAYO (SO. RHODESIA)



Whatever moulding process you use, you'll get three important advantages from using Gold Bond asbestos floats:

1. Freedom from grit.
2. Higher impact strength.
3. Improved heat resistance.

Your production costs will be lower because of higher production and fewer reworks. Ask your Gold Bond® Representative for the full details. Or write National Gypsum Company, Buffalo 2, N. Y. In Canada: National Asbestos Mines, Thetford Mines, P. Q.

Gold Bond
INDUSTRIAL PRODUCTS

CURRENT RANGE OF PRICE

As of September 10, 1961

ARIZONA—	Per Ton of 2,000 lbs., f.o.b. Globe, Arizona		
No. 1 Crude (soft)	$1,650.00	to	$1,800.00
No. 2 Crude (soft)	800.00	to	1,000.00
Group No. 3 (Filtering & Spinning)	375.00	to	450.00
Group No. 4 (Plastic & Filtering)	225.00	to	250.00
Group No. 5 (Plastic & Filtering)	190.00	to	225.00
Group No. 7 (Refuse & Shorts)	58.00	to	90.00

CANADA—	Per Ton 2,000 lbs. f.o.b. Mine Canadian Currency		
Group No. 1 (Crude No. 1)	$1,410.00	to	$1,475.00
Group No. 2 (Crude No. 2); Crude Run-of-Mine and Sundry	610.00	to	875.00
Group No. 3 (Spinning Fibre)	350.00	to	650.00
Group No. 4 (Shingle Fibre)	180.00	to	245.00
Group No. 5 (Paper)	120.00	to	150.00
Group No. 6 (Waste, Stucco or Plaster)	..		86.00
Group No. 7 (Refuse or Shorts)	40.00	to	80.00

VERMONT—Per ton of 2,000 lbs. f.o.b. Hyde Park or Morrisville, Vermont			
Group No. 3 (Spinning & Filtering)	$ 345.00	to	$ 402.00
Group No. 4 (Shingle Fibre)	181.00	to	320.00
Group No. 5 (Paper Fibre)	120.00	to	142.00
Group No. 6 (Waste, Stucco or Plaster)	..	to	86.00
Group No. 7 (Refuse or Shorts)	40.00	to	75.00

THE RUBEROID CO.

Second Quarter Report—1961

Net sales of The Ruberoid Co. for the quarter ended June 30th, 1961, totaled $34,279,513, an increase of 6% over sales of $32,126,934 in the second quarter of 1960. Net income for the 1961 second quarter amounted to $1,704,043, a gain of 25% over net income of $1,366,736 reported for the three months ended June 30, 1960.

According to E. J. O'Leary, Chairman and President of Ruberoid, "Several factors contributed to the company's favorable performance in the 1961 second quarter, including a general improvement in the overall economy, replenishment of dealer inventories and a more optimistic consumer attitude".

RAW ASBESTOS DISTRIBUTORS

LIMITED

FOR CANADIAN, RHODESIAN
AND SOUTH AFRICAN ASBESTOS

ASBESTOS HOUSE • 77-79 FOUNTAIN ST. • MANCHESTER 2
ENGLAND

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.)

		August 1961		
	Par	Low	High	Last
Advocate Mines, Ltd.	1	$4.10	$5.15	$4.80
American Brake Shoe	np	48	49⅝	48⅞
Armstrong Cork (Com)	1	66¾	70	67½
Armstrong Cork (Pfd)	np	79½	85½	81
Asbestos Corporation	np	31¾	33¾	32
Philip Carey	10	30½	31¾	31¾
Cassiar Asbestos Corp.	np	13	14¼	13¾
Celotex (Com)	1	26¼	29⅞	27¾
Celotex (Pfd)	20	19	19⅝	19½
Certain-Teed	1	49	65¾	58½
Fibreboard	np	26¼	32¾	31
Flintkote (Com)	5	27⅛	29½	27¾
Flintkote (Pfd)	np	83¼	86½	85½
Johns-Manville	5	63½	69⅜	66¼
National Gypsum (Com)	1	61½	65⅞	61⅞
National Gypsum (Pfd)	np	90½	95	91¾
Porter, H. K.	100	94¼	96¾	96½
Raybestos-Manhattan	np	71¼	77	74
Ruberoid	1	41¼	42¼	42
Unarco	5	7½	8¼	7¾
United Asbestos	1	$5.95	$6.60	$6.30
U. S. Gypsum (Com)	4	96½	105½	98½
U. S. Gypsum (Pfd)	100	152	156	155
U. S. Rubber (Com)	5	58¾	64½	60
U. S. Rubber (Pfd)	100	156	159	156¼

THE PHILIP CAREY MFG. CO.

Six-Month Report—1961

Sales of The Philip Carey Manufacturing Company and subsidiaries for the first six months of 1961 amounted to $30,741,741 compared with $31,639,696 for the same months of 1960. Sales for the second quarter of 1961 were $19,097,662 compared with $18,336,970 a year ago.

Net earnings for the first six months of 1961 were $1,131,424 compared with $1,071,436 for the same 1960 period.

According to J. W. Humphrey, Carey President, "Greater demand for Carey building products, starting in April, contributed to the improved sales and earnings during the second quarter".

WOVEN AND NEEDLED

ASBESTOS CEMENT

SHINGLE, TUBE AND

CORRUGATING FELTS

NORDISKAFILT

NORDISKA MASKINFILT AKTIEBOLAGET
HALMSTAD • SWEDEN

Edwin D. Meade has been appointed Director of Commercial Relations for UNITED STATES RUBBER COMPANY.

In his new post, Mr. Meade will place primary emphasis on new market opportunities, adding support on the corporate level to the sales efforts of the Company's operating divisions. In addition, he will assist in the development of national accounts which use products of two or more of the Company's divisions.

Edward C. Koch has been appointed a Vice President of the ORANGEBURG MANUFACTURING COMPANY, New York, Division of The Flintkote Company, it was announced by H. J. Robertson, President, Orangeburg Division.

Mr. Koch will be in charge of sales for Orangeburg's asbestos-cement pipe products, which will be produced in a new $10 million plant to be built at Ravenna, Ohio. As recently announced by Flintkote, this plant is the first of two planned for the production of asbestos-cement pipe.

Mr. Koch joined Flintkote after 25 years' association with the Johns-Manville Corporation. Following a number of assignments in field sales and product management, his last position with J-M was as Manager of Market Surveying and Testing in the New Business Development Department.

Arnold R. McCombs will retire in October 1961 as Production Manager of the ARMSTRONG CORK COMPANY's Building Materials Operations, after 31 years of service with the Company. As Production Manager of Building Materials Operations, a position he has held since 1944, Mr. McCombs has been responsible for the production operations of Armstrong plants located in Macon, Georgia; Pensacola, Florida; and, Beaver Falls, Pennsylvania.

Joseph L. Jones, Jr., Manager of Floor Print Production and Inspection Services at the Lancaster Floor Plant, will succeed Mr. McCombs.

Louis J. Bibri, Personnel and Labor Relations Manager at the Floor Plant, will succeed Mr. Jones.

Arthur D. Webster, now Assistant Manager of Training in the Company's Personnel Administration Department, will succeed Mr. Bibri.

PHILLIPS ASBESTOS MINES

Producers of CRUDES and FIBERIZED ASBESTOS
The World's Finest Fibres

DRAWER 71, GLOBE, ARIZONA Mines and Mills in Gila Co., Arizona

LAGGING IN FRONT

This is B.B.A. Asbestos Fibre-Filled Rope Lagging for Steam Pipe Insulation, one of many of asbestos products, from yarn and rovings to cloth, tapes and jointings of all types and the world-famous MINTEX friction materials and MINTEX Industrial Plastics—made by B.B.A. In production, as in research, we are in the front of our field.

B.B **BRITISH BELTING & ASBESTOS LTD**

CLECKHEATON, YORKSHIRE, ENGLAND

PATENTS

Abstracts of U. S. Patents on Asbestos and Asbestos Products by Oliver S. North.

Copies of patents can be obtained by sending 25 cents, (in coin), to The Commissioner of Patents, Washington 25, D. C., giving the patent number, date it was issued, name of patentee and name of invention.

Dry Plaster Mix Comprising Aggregate, Clay, Cellulose Derivative and Amine Aldehyde Resin, No. 2,993,016. Granted on July 18, 1961, to G. Sucetti. An improved plaster mixture for acoustical and/or heat insulating purposes consists of exfoliated vermiculite or expanded perlite, asbestos fibre, bentonite, methyl cellulose or carboxymethyl cellulose, and a condensation product of an aldehyde and urea or melamine.

Insulating Composition Containing Sodium Carboxymethyl Cellulose, Aluminum Acetate and Polyvinyl Acetate, No. 2,993,017. Granted on July 18, 1961, to G. Sucetti. A plastic composition for application to metal surfaces to serve as heat insulation, e.g. in the insulation of fuel tanks of diesel locomotives, consists of exfoliated vermiculite, expanded perlite, asbestos fiber of the type found at the Phoenix mine in Napa County, California, sodium carboxymethyl cellulose, basic aluminum acetate, polyvinyl acetate, and water.

Wet Brushing of Woven Asbestos Fabric, No. 2,993,261. Granted on July 25, 1961, to H. E. Sunbury (assigned to U. S. Rubber Company, New York City). Method of treating fabrics formed predominantly from asbestos fibre to make it smoother and whiter and give it a softer hand. The fabric is wetted, brushed continuously, and dried, whereby the interstices are closed up and the weave obscured to reduce the air permeability. A binder may be added to the wetted fabric to bind any free asbestos fibre present.

Plastic Containing Composition and the Process of Making the Same, No. 2,993,799. Granted on July 25, 1961 to C. L. Blake. A fireproof, water-repellent, lightweight construction material consists of asbestos fibre, a thermosetting or thermoplastic polyester resin, a plasticizing resin, and a lowcost inert filler material.

Oil Base Drilling Fluids, No. 2,995,514. Granted on August 8, 1961, to J. W. Jordan, R. E. Offeman and D. J. Weintritt (assigned to National Lead Company, New York City). An oil-base drilling fluid having improved viscosity characteristics comprises an oil as the continuous phase, 5 to 50 pounds of comminuted asbestos fibre of the chrysotile type per barrel of fluid, and tall oil soap or other surface-active agent.

asbestos-cement pressure pipe

LAYS AS FAST AS A SHOVEL DIGS

G&B Construction, Inc., Youngstown, O., installs 4½ miles of "K&M" Asbestos-Cement Pressure Pipe for the Austintown District of Mahoning County, O.

Says Louis Gulfo, partner with Mike and James Bertilacci in G&B Construction, Inc.: "You can lay 'K&M' Pipe as fast as a shovel can dig. A 16" water pipe goes in as easy as an 8" line. What more could you ask? They've got a good joint with that FLUID-TITE Coupling . . . the pipe is wonderful to put together. Of all the 'K&M' Pipe we've laid, we've never had a coupling break."

Write today for more information on "K&M" Asbestos-Cement Pressure Pipe to: Keasbey & Mattison Company, Ambler, Pa., Dept. P-0000.

K-M Keasbey & Mattison at Ambler

ASBESTOS — TEXTILES

H. K. PORTER COMPANY, INC.

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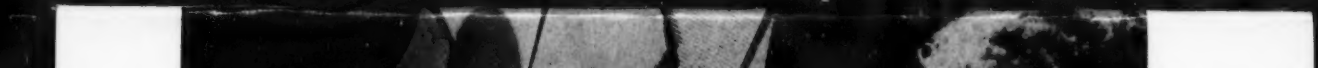
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